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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/689,420	10/20/2003	Hans-Wilhelm Klein	ZTP01P18004	2801	
24131 7	590 02/18/2005		EXAM	EXAMINER	
LERNER AND GREENBERG, PA			NGUYEN, VINH P		
P O BOX 2480 HOLLYWOOD, FL 33022-2480			ART UNIT	PAPER NUMBER	
HOLLI WOO	J, FL 33022-2460		2829	TALER NOMBER	
			DATE MAILED: 02/18/2003	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

1, .				-H.H			
		Application No.	Applicant(s)				
Office Action Summary		10/689,420	KLEIN, HANS-WILHELM				
		Examiner	Art Unit				
		VINH P NGUYEN	2829				
Period f	The MAILING DATE of this communication apports or Reply	pears on the cover sheet with the	correspondence address				
THE - External control	IORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. INSIGN of time may be available under the provisions of 37 CFR 1.1 If SIX (6) MONTHS from the mailing date of this communication. If SIX (6) MONTHS from the mailing date of this communication. If period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period ourse to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	mely filed ys will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on 20 C	October 2003.					
2a)[This action is FINAL. 2b)⊠ This	action is non-final.		•			
3) 🗌							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
4)⊠	Claim(s) 1-20 is/are pending in the application						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) 🗀	Claim(s) is/are allowed.						
6)□	Claim(s) is/are rejected.						
7) 🖂	Claim(s) <u>1-20</u> is/are objected to.		•				
8) 🗌	Claim(s) are subject to restriction and/o	or election requirement.					
Applicat	ion Papers						
9) 🗌	The specification is objected to by the Examine	er.					
10) 🗌	0) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the correct	• • • • • • • • • • • • • • • • • • • •	•				
11)[The oath or declaration is objected to by the Ex	xaminer. Note the attached Office	e Action or form PTO-152.				
Priority	under 35 U.S.C. § 119						
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea See the attached detailed Office action for a list	ts have been received. Is have been received in Applicat writy documents have been receiv u (PCT Rule 17.2(a)).	tion No red in this National Stage				
		·					
Attachmer	nt(s) ce of References Cited (PTO-892)	4) 🔲 Interview Summan	v (PTO-413)				
2) 🔲 Noti 3) 🔯 Info	ce of References Cited (P10-692) ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date <u>1003</u> .	Paper No(s)/Mail D					

Application/Control Number: 10/689,420

Art Unit: 2829

1. This application is in condition for allowance except for the following formal matters:

Page 2

2. The abstract of the disclosure is objected to because legal phraseology such as "the invention" is used. Correction is required. See MPEP § 608.01(b).

3. Claims 1-20 are objected to because of the following informalities:

In claims 1 and 10, it is unclear how the "a rise time of the current" and "a current rise" are measured and which device is used for that purpose. It is also unclear how "a rise time of the current" or "a current rise" are related to a winding temperature of a drive motor?

In claim 7, it is unclear what "an acknowledgement" is. Is it referred to a specific measured parameter such as "current ","voltage", or "temperature".

In claim 11, it is unclear what "time measurement apparatus" represent.

In claim 17, it is unclear what "a downstream control unit" represents. Is it shown in any of drawings?

In claims 18-20, it is unclear what "time measurement apparatus" represents. Is it shown in any of drawings.

The dependent claims not specifically address share the same indefiniteness as they depend from objected base claims.

4. if the objection(s) of claims 1,7,10-11,17-20 are overcome, claims 1-20 would be allowable because the prior art does not disclose method and apparatus for measuring a winding temperature of a drive motor by specifically calculating a change in temperature of the motor

Art Unit: 2829

windings from a change in the current flow resulting from a change in the temperature dependent resistance or programming the computation unit for determining one of temperature change and a temperature of the windings based upon one of the instantaneous resistance and an instantaneous change in the temperature dependent resistance.

Prosecution on the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Atarashi (Pat # 6,700,400) disclose constant detecting apparatus for brushless DC motor, control apparatus for brushless DC motor and program for detecting constant of brushless DC motor.

Paice (pat # 4,083,001) disclose measurement of motor winding temperature.

Maier et al (Pat # 6,504,358) disclose method for detecting the operating temperature of a motor.

Application/Control Number: 10/689,420

Art Unit: 2829

Ursworth et al (Pat # 5,510,687) disclose electric motor controller with temperature

Page 4

protection.

6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to VINH P NGUYEN whose telephone number is (571)-272-1964.

The fax phone number for the organization where this application or proceeding is assigned is

703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

VINH P. NGUYEN

PRIMARY EXAMINER

ART UNIT 2829

02/16/05